Deutscher Hängegleiterverband e.V.		Ь	lome   Contact   Imprint
	ment Flying Equipment Database	Manufacturers / Dealers	Flying Schools Clubs
IV Databases			
TECHNICAL DATA DHV TESTREPORT LTF DHV TESTREPORT EN	DATASHEET PARTS LIST OPERATING INSTR		DUIL
HV TESTREPORT LTF 2009			DHY
GIN GTO 2 M			
Type designation Type test reference no Holder of certification Manufacturer Classification Winch towing Number of seats min / max Accelerator Trimmers	DHV GS-01-2124-15 <u>GIN Gliders Inc.</u> D Yes 1 / 1 Yes		
Test pilots	BEHAVIOUR AT MIN WEIGHT IN FLIGHT (90KG)	BEHAVIOUR AT MAX WEIGHT IN FLIGHT (105KG)	
Inflation/take-off	Harald Buntz A • Smooth, easy and constant rising	Sebastian Mackrodt A Smooth, easy and constant rising	
Special take off technique required		No	
Landing	A	A	
Special landing technique required		No	
Speeds in straight flight	A	A	
Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h Minimum speed		Yes Yes Less than 25 km/h	
Control movement	A	c	
Symmetric control pressure Symmetric control travel	-	Increasing 50 cm to 65 cm	
Pitch stability exiting accelerated flight Dive forward angle on exit Collapse occurs		A Dive forward less than 30° No	
Pitch stability operating controls during accelerated flight	A	A	
Collapse occurs	s No	No	
Roll stability and damping	Α	A	
Oscillations	Reducing	Reducing	
Stability in gentle spirals	A	A	
Tendency to return to straight flight	t Spontaneous exit	Spontaneous exit	
Behaviour in a steeply banked turn 🔥	В	В	
Sink rate after two turns	More than 14 m/s	More than 14 m/s	
Symmetric front collapse	c	c	
	<ul> <li>Rocking back greater than 45°</li> <li>Spontaneous in 3 s to 5 s</li> </ul>	Rocking back greater than 45° Spontaneous in 3 s to 5 s	

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Dive forward angle on exit Change of course Cascade occurs	Entering a turn of less than 90°	Dive forward 30° to 60° Entering a turn of less than 90° No
Symmetric front collapse in accelerated flight		c
Entry Recovery Dive forward angle on exit	Rocking back greater than 45° Spontaneous in 3 s to 5 s Dive forward 30° to 60° Entering a turn of less than 90°	Rocking back greater than 45° Spontaneous in 3 s to 5 s Dive forward 30° to 60° Entering a turn of less than 90° No
Exiting deep stall (parachutal stall)	B	в
	<u>i</u>	<u>i</u>
Dive forward angle on exit	Spontaneous in less than 3 s Dive forward 30° to 60° Changing course less than 45°	Yes Spontaneous in less than 3 s Dive forward 30° to 60° Changing course less than 45° No
High angle of attack recovery	A	A
	Spontaneous in less than 3 s	Spontaneous in less than 3 s No
Recovery from a developed full stall	B	в
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	Dive forward 30° to 60° No collapse	Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight
Asymmetric collapse 45-50% Change of course until re-inflation	A Less than 90°	A Less than 90°
Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Spontaneous re-inflation Less than 360°	Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No
Twist occurs		No
Cascade occurs	No	No
Asymmetric collapse 70-75%	c	c
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Dive or roll angle 45° to 60° Spontaneous re-inflation Less than 360° No No	90° to 180° Dive or roll angle 45° to 60° Spontaneous re-inflation Less than 360° No No
Asymmetric collapse 45-50% in accelerated	c	c
flight Change of course until re-inflation	 	Less than 90°
Maximum dive forward or roll angle	Dive or roll angle 45° to 60° Spontaneous re-inflation Less than 360° No No	Dive or roll angle 45° to 60° Spontaneous re-inflation Less than 360° No No
Asymmetric collapse 70-75% in accelerated	c	D
<u>flight</u> Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course	Dive or roll angle 45° to 60° Spontaneous re-inflation	90° to 180° Dive or roll angle 60° to 90° Inflates in less than 3 s from start of pilot action Less than 360°
Collapse on the opposite side occurs Twist occurs Cascade occurs	Yes, no turn reversal No	Yes, causing turn reversal No No
Directional control with a maintained asymmetric collapse	c	c
Able to keep course 180° turn away from the collapsed side possible in		Yes Yes
10 s Amount of control range between turn and stall or spin	25 % to 50 % of the symmetric control travel	
Trim speed spin tendency	A	A
Spin occurs		No
	1.	
Low speed spin tendency	A	A
Spin occurs	<u></u>	A No

http://www.dhv.de/db1/source/technictestreport2.php?lang=en&templatesetid=-1&fieldvalue=-2682

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Cascade occurs No		No
<u>8-line stall</u>	c	D
Change of course before release	Changing course less than 45°	Changing course more than 45°
Behaviour before release	Remains stable without straight span	Unstable
Recovery	Spontaneous in 3 s to 5 s	Recovery through pilot action in less than a further 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Cascade occurs	No	No
<u>Biq ears</u>	В	В
Entry procedure	Dedicated controls	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
Recovery	Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Big ears in accelerated flight	A	A
Entry procedure	Standard technique	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
Recovery	Spontaneous in 3 s to 5 s	Spontaneous in 3 s to 5 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Behaviour immediately after releasing the accelerator while maintaining big ears		Stable flight
<u>Behaviour exiting a steep spiral</u>	A	A
Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Less than 720°, spontaneous recovery
Sink rate when evaluating spiral stability [m/s]	14	14
Alternative means of directional control	A	A
180° turn achievable in 20 s Yes		Yes
Stall or spin occurs	No	No
Any other flight procedure and/or configuratio	n described in the user's manual	

No other flight procedure or configuration described in the user's manual

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